

Appl. No. 10/081,080
Amtd. Dated: April 1, 2005
Reply to Office Action of November 3, 2004

REMARKS

Claims 1-10 are pending in the Application, while claims 1-10 were rejected. Claims 1-3 have been amended. Support for the amendment can be found in the entire specification and figures. Fig. 2 of the Application, for example, shows the coil-type spring of the connector, as recited in claims 1-3. No new matter has been added by the amendment.

Claim Rejections Under 35 U.S.C. §103

Claims 1-3 and 8-10

Claims 1-3 and 8-10 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Fijten et al., US 6,113,440 (hereinafter "Fijten") for the reasons stated on pages 2-8 of the Office Action. Applicant respectfully traverses the rejection.

For an obviousness rejection to be proper, the Examiner must meet the burden of establishing that all elements of the invention are disclosed in the prior art; and that the prior art relied upon, coupled with knowledge generally available in the art at the time of the invention, must contain some suggestion or incentive that would have motivated the skilled artisan to modify a reference or combined references. *In re Fine*, 5 U.S.P.Q.2d 1596, 1598 (Fed. Cir. 1988); *In Re Wilson*, 165 U.S.P.Q. 494, 496 (C.C.P.A. 1970). Fijten, however, fails to teach or suggest all elements of the claimed invention.

Claim 1 is a battery connector for a mobile phone, installed in a main body of the mobile phone and contacting a battery terminal to supply power to a printed circuit board (PCB) of the mobile phone, the battery connector comprising: a body having a plurality of plunger housings; a plunger slidably installed in each of the plurality of plunger housings of the body; a base cover member having a cylindrical connection part fitted in a lower end of each of the plurality of plunger housings, a bottom surface of the base cover member adhered to the PCB by soldering and made of conductive material; and a coil-type spring biasing the plunger in the plunger housing against the bottom of the base cover member.

The claimed battery connector comprises a coil-type spring, while the connector of Fijten fails to teach or suggest the coil-type spring. Col. 3, lines 2-3 of Fijten teach that the contact (5) is produced from sheet-metal by stamping and forming. Therefore,

Appl. No. 10/081,080
Amdt. Dated: April 1, 2005
Reply to Office Action of November 3, 2004

the spring region (8) arranged between the connection region (6) and the contacting region (7) is produced by stamping and forming the sheet-metal, rather than using a coil-type spring. Thus, Fijten fails to teach or suggest the element "the coil-type spring" as recited in claim 1.

Fijten further fails to teach or suggest the element "the cylindrical connection part", as recited in claim 1. Fig. 2 of Fijten, for example, teaches that the connection region (6) for connection to a printed circuit board has a square shape. There is no teaching or suggestion, in Fijten, that the connector has a cylindrical connection part. Still further, as indicated by the Examiner on page 2 of the office action, Fijten fails to specifically disclose a base cover member having a cylindrical connection part fitted in a lower end of each of the plurality of plunger housings, a bottom surface of the base cover member adhered to the PCB by soldering and made of conductive material; and a spring biasing the plunger in the plunger housing against the bottom of the base cover member.

The claimed battery connector has an improved durability by employing the coil-type spring, the base cover member, the plunger housing, and the plunger, while such teaching is not found in the connector disclosed in Fijten. Instead, the Examiner has used Applicant's disclosure to select portions of the cited reference to allegedly arrive at Applicant's invention. In doing so, the Examiner has failed to consider the teachings of the reference or Applicant's invention as a whole in contravention of section 103, including the disclosures of the reference which teaches away from Applicant's invention. Accordingly, Fijten does not render claim 1 obvious for at least the reasons stated above.

Claim 2 is believed to be patentable over Fijten for at least the reasons given for claim 1, because it contains similar features. Claims 3 and 8-10 are believed to be allowable due to their dependency on claim 2.

Claims 4-7

Claims 4-7 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Fijten in view of Lok, US 6,068,519 (hereinafter "Lok") for the reasons stated on pages 8-11 of the Office Action. Applicant respectfully traverses the rejection.

Lok fails to teach or suggest the elements "a coil-type spring disposed under the contact plunger inside the housing, for providing the contact plunger with elasticity and

Appl. No. 10/081,080
Amtd. Dated: April 1, 2005
Reply to Office Action of November 3, 2004

being made of conductive material; and a base member disposed between the housing and the operating member, for fixing the housing at a selected region on the operating member, the base member being made of conductive material", as recited in claim 2. Therefore, Lok does not cure the deficiency of Fijten, and the combination of Fijten and Lok does not render claim 2, from which claims 4-7 depend, obvious. Accordingly, claims 4-7 are believed to be allowable due to their dependency on claim 2.

Conclusion

In view of the foregoing, it is respectfully submitted that the instant application is in condition for allowance. Accordingly, it is respectfully requested that this application be allowed and a Notice of Allowance issued. If the Examiner believes that a telephone conference with Applicants' attorneys would be advantageous to the disposition of this case, the Examiner is cordially requested to telephone the undersigned.

In the event the Commissioner of Patents and Trademarks deems additional fees to be due in connection with this application, Applicant's attorney hereby authorizes that such fee be charged to Deposit Account No. 06-1130.

Respectfully submitted,

CANTOR COLBURN LLP

By: 

Soonja Bae

Reg. No. (See Attached)

Confirmation No. 4642

Cantor Colburn LLP

55 Griffin Road South

Bloomfield, CT 06002

PTO Customer No. 23413

Telephone: (860) 286-2929

Fax: (860) 286-0115

Date: April 1, 2005